



**west virginia** department of environmental protection

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

May 15, 2014

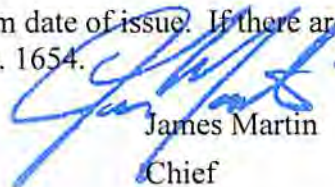
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-2101461, issued to HARPER, HAYDEN ENERGY KA, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 1  
Farm Name: BALL, ALPHEUS  
**API Well Number: 47-2101461**  
**Permit Type: Plugging**  
Date Issued: 05/15/2014

1) Date February 20, 2014  
2) Operator's  
Well No. A Ball #1  
3) API Well No. 47-021 - 01461

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 720' Watershed Little Kanawha River  
District DeKalb County Gilmer Quadrangle Glenville

6) Well Operator Hayden & Harper KA, LLC 7) Designated Agent Brett McDonough  
Address 1001 Moorehead Square Dr. Suite 350 Address 1001 Moorehead Square Dr. Suite 350  
Charlotte, NC 28203 Charlotte, NC 28203

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Bryan Harris Name Patchwork Oil & Gas, LLC  
Address P.O Box 157 Address 8165 Elizabeth Pike  
Volga, WV 26238 Elizabeth, WV 26143

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached procedure and diagram on the following page, A. Ball #1 47-021-01461.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

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Work order approved by inspector *Suzanne O'Hara*

Date 3-20-14 WV Dept of Environmental Protection

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

A. Ball #1  
47-021-01461



Records show possible cement fill up is at 217' range



(5) 50lb sacks of 6% gel used  
(115) 100lb sacks of cement

Going to attempt to start casing rip 50' above elevation




Elevation 720'



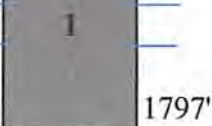
Plugs	
Plug #3	Surface-215'
Plug #2	670'-770' (Elevation)
Plug #1	1660'-1797'

Cement plugs are at a minimum of 100' Class A Cement with no more than 3% CaCl2 and no other additives.

Gel spacers between all cement plugs must be fresh water with at least 6% Bentonite by weight

 : Cement  
 : Gel  
 : Bridge Plug (if any)

Perforation 1710'-1750'



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 Environmental Protection



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 7

Quadrangle Glenville

Permit No. GIL-1461

WELL RECORD

Oil or Gas Well Both  
(KIND)

Company Sinstar Development Company  
Address Box 350, Spencer, West Virginia  
Farm Alpheus Ball Hrs. Acres 175  
Location (waters) Little Kanawha River  
Well No. 1 Elev. 720'  
District DeKalb County Gilmer  
The surface of tract is owned in fee by Alpheus Ball Hrs.  
Address Glenville, W.Va.  
Mineral rights are owned by Same  
Address \_\_\_\_\_

Drilling commenced September 6, 1962  
Drilling completed September 29, 1962  
Date Shot No From \_\_\_\_\_ To \_\_\_\_\_  
With No  
Open Flow 2 /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 11,000 Cu. Ft.  
Rock Pressure Not Checked lbs. \_\_\_\_\_ hrs.  
Oil None bbls., 1st 24 hrs.  
WELL ACIDIZED No

WELL FRACTURED 800 bbl. H<sub>2</sub>O 34,000 sand  
RESULT AFTER TREATMENT 1,200,000 cu. ft.  
ROCK PRESSURE AFTER TREATMENT 820# in 24hrs. Estimated 10 bbl.  
Fresh Water None Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size <u>18'</u>	<u>20'</u>	<u>20'</u>	Kind of Packer _____
<u>13</u>			
<u>10 3/4</u>	<u>193' ✓</u>	<u>0</u>	Size of _____
<u>8 5/8</u>	<u>719'</u>	<u>0</u>	
<u>6 3/4</u>			Depth set _____
<u>5 3/16</u>			
<u>4 1/2</u>	<u>1797'</u>	<u>1797'</u>	Perf. top <u>1710</u> ✓
<u>2</u>			Perf. bottom <u>1750</u>
Liners Used _____			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 11 1/2 SIZE 1796 No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
See attached record 200 sks. cement ✓  
COAL WAS ENCOUNTERED AT None FEET \_\_\_\_\_ LAWSON INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	10			
Red Rock			10	55			
Slate			55	80			
Red Rock			80	115			
Slate			115	150			
Red Rock			150	170			
Slate			170	240			
Red Rock			240	250			
Slate & Shells			250	330			
Sand			330	381			
Shells & Slate			381	500			
Sand			500	535			
Slate & Shells			535	645			
Sand			645	759			
Slate			759	898			

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MAR 26 2014  
Department of Environmental Protection

RECEIVED  
West Virginia  
Dept. of Mines  
MAR 26 2014

(over)

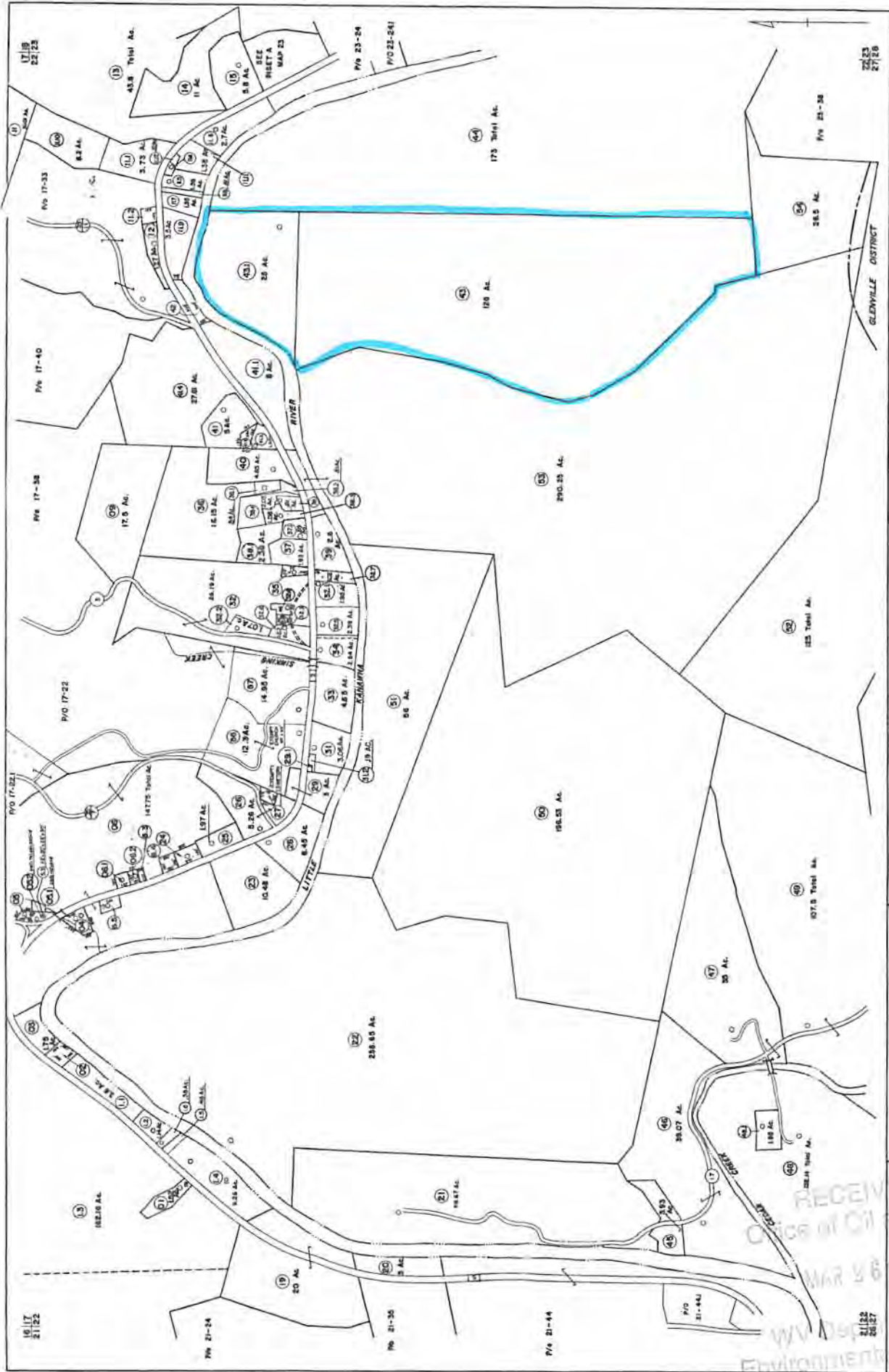
2101461A

Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			898	959			
Slate			959	1030			
Sand			1030	1080			
Slate			1080	1120			
Salt Sand			1120	1161			
Slate			1161	1185			
Sand			1185	1215			
Slate			1215	1230			
Sand			1230	1245			
Slate			1245	1274			
Sand			1274	1357			
Slate			1357	1377			
Lime			1377	1396			
Sand			1396	1403			
Slate			1403	1415			
Lime			1415	1560			
Slate			1560	1680			
Sand			1680	1756			
Slate			1756	1778			
Total Depth				1797 ✓			

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Office of Oil and Gas  
MAR 26 2014

Date October 19, 19 62  
 APPROVED Sinstar Development Company, Owner  
 By [Signature] (Title)  
 WV Department of Environmental Protection

05/16/2014



DEKALB DISTRICT  
SHEET 22  
Date Aerial Photography: 04/11/11  
Photo No. 141, 142

STATE OF WEST VIRGINIA  
COUNTY OF GILMER  
Office of Assessor

Revisions

NO.	DATE	DESCRIPTION	BY	CHKD.
1	05/16/2014	FOR TAX PURPOSES ONLY	L. ROBERT KAMALL	
2	05/16/2014	FOR TAX PURPOSES ONLY	L. ROBERT KAMALL	
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Legend

Symbol	Description
—	Property Line
—	Boundary Line
—	Stream Line
—	Utility Line
—	Right of Way
—	Other

FOR TAX PURPOSES ONLY  
L. ROBERT KAMALL  
County Engineer  
Blenheim, Pennsylvania

WW-4A  
Revised 6-07

1) Date: February 20, 2014  
2) Operator's Well Number  
A. Ball #1

3) API Well No.: 47 - 021 - 01461

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:  
(a) Name Roxl D. Hamric ✓  
Address PO BOX 196  
Glenville, WV 26351  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Bryan Harris  
Address P.O Box 157  
Volga, WV 26238  
Telephone 304-553-6087 or 304-472-1732

5) (a) Coal Operator  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Hayden & Harper KA, LLC  
By: Brett McDonough MICHAEL FOX [Signature]  
Its: Vice President CFO  
Address 1001 Moorehead Square Dr. Suite 350  
Charlotte, NC 28203  
Telephone 704-343-2447

Subscribed and sworn before me this 20th day of March 2014  
Sherri Palmer  
My Commission Expires 9-21-18

Sherri Palmer  
Notary Public  
Mecklenburg County  
North Carolina  
My Commission Expires 9-21-18

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

Office of Oil and Gas  
WV Department of  
Environmental Protection



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Roxie Harmon  
 P.O. Box 196  
 Grenada, WV 26351

2. Article Number

(transfer from service label)

7011 1570 0003 5498 6445

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Roxie Harmon*  Agent  Addressee

B. Received by (Printed Name)

C. Date of Delivery

3/13/14

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:  No

3. Service Type

- Certified Mail  Express Mail
- Registered  Return Receipt for Merchandise
- Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

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Office of Oil and Gas

MAR 26 2014

WV Department of  
Environmental Protection

210461P

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Hayden & Harper KA, LLC OP Code 494495359

Watershed Little Kanawha River Quadrangle Glenville

Elevation 720' County Gilmer District Dekalb

Description of anticipated Pit Waste: fluids used and associated with well plugging activities

Will a synthetic liner be used in the pit? Yes 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Solidify with cement and life, bury.)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Brett McDonough

Company Official Title Vice President

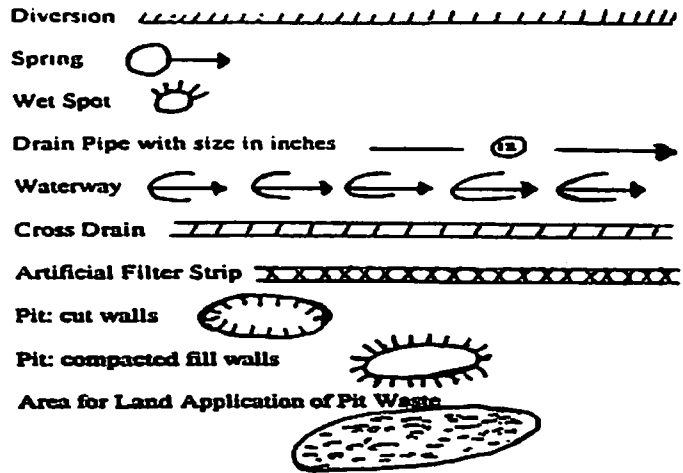
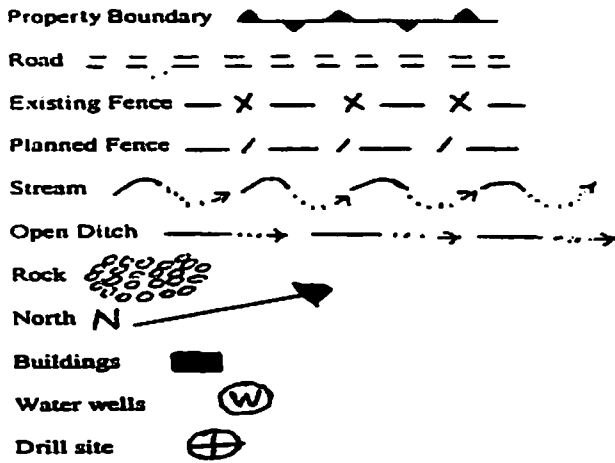
Subscribed and sworn before me this 12<sup>th</sup> day of March, 2014

DeDee Taylor Notary Public

My commission expires May 17, 2016



LEGEND



Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH 6.4

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch pulp fiber at 0.5-0.75 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II	lbs/acre
Tall Fescue		40
Ladino Clover		5

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

RECEIVED  
Office of Oil and Gas

Comments: \_\_\_\_\_

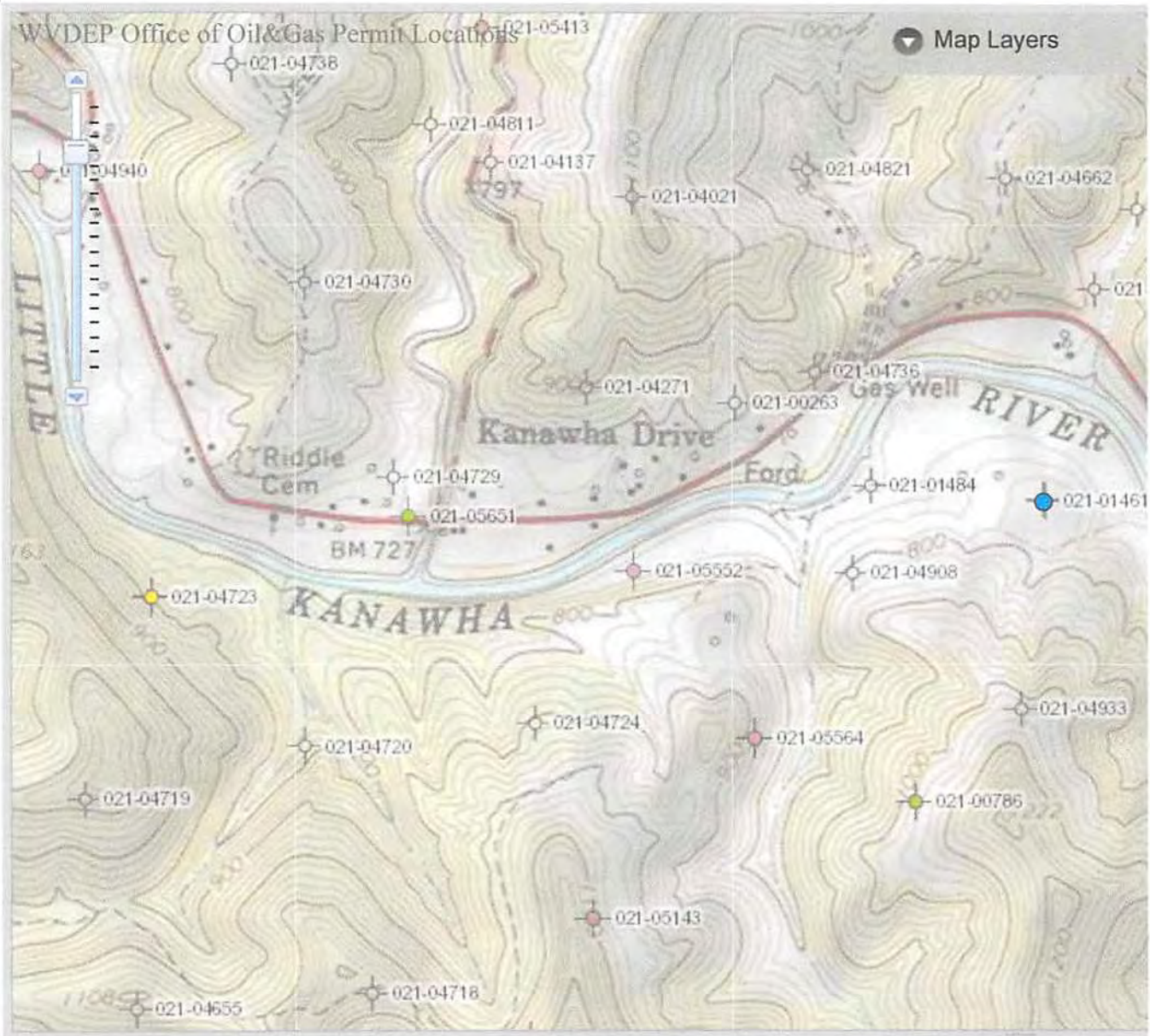
MAR 26 2014

Title: Oil & Gas Inspector

Date: 3-20-14

WV Department of Environmental Protection

Field Reviewed?  Yes  No



05/16/2014

2/26/2014

